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Applicant(s): Yasushi AKIYAMA et al.

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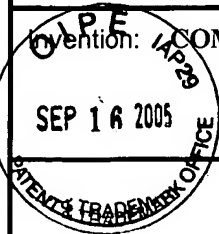
WU, Ives J.

Group Art Unit

1713

Invention: COMPOSITION FOR ANTIREFLECTIVE COATING AND METHOD FOR FORMING SAME

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(21)Application number : 09-292051 (71)Applicant : ASAHI GLASS CO LTD

(22)Date of filing : 24.10.1997 (72)Inventor : YOKOZUKA TOSHISUKE

MATSUKURA IKUO

KAMIYA HIROKI

KASHIWAGI KIMIAKI

(54) COATING COMPOSITION

(57)Abstract:

PROBLEM TO BE SOLVED: To obtain a composition which has a low refractive index suitable for antireflecting film on a photoresist surface and can be completely removed by developer during developing of the photoresist by using a fluorine-based polymer containing a specific polymerization unit.

SOLUTION: A fluorine-based polymer to be used contains a polymerization unit represented by $-\text{CF}_2\text{CF}(\text{ORfCOOM})-$ or both the above polymerization unit and a polymerization unit represented by $-\text{CF}_2\text{CFX}-$ (Rf is a linear or branched perfluoroalkylene which may contain an ether oxygen; -COOM includes -COOH, -COOY (Y is a non-substituted or substituted ammonium ion) and -COOH.Z (Z is an amine); and X includes fluorine and chlorine). Number average molecular weight of the fluorine-based polymer is preferably 1×10^3 - 3×10^4 . A solvent to be used is water, an organic solvent or a mixture of water and an organic solvent.

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